



**Disinfection and sterilising of objects, liquids or air - consists of ultraviolet irradiation for strong pulsed arc discharging in vacuum and in gas**

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#### Patent Family

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#### Abstract:

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The process comprises exposure to ultraviolet radiation at not over 300 nm wavelength. The treatment is based on continuous spectrum radiation with a pulse duration not exceeding  $5 \times 10^{-4}$  sec. and a power density of not less than 100 kW/m<sup>2</sup>.

**ADVANTAGE** - The threshold energy dose is decreased.

In an example, powerful pulsed arc discharges in vacuum and in gases can be applied. In the case of Bac. antracoidis with  $2 \times 10^7$  spores per cm<sup>2</sup> on a painted wooden surface, a pulsed xenon lamp of 3.5 kJ discharge energy gives 0.067 Hz pulsing. The 100 kW/m<sup>2</sup> power density and the  $5 \times 10^{-4}$  sec. pulses provide 100% decontamination at a sum power dose of 3000 J/m<sup>2</sup>. Bul.39-40/30.10.93

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